

Trend Study 11B-16-00

Study site name: Steer Ridge.

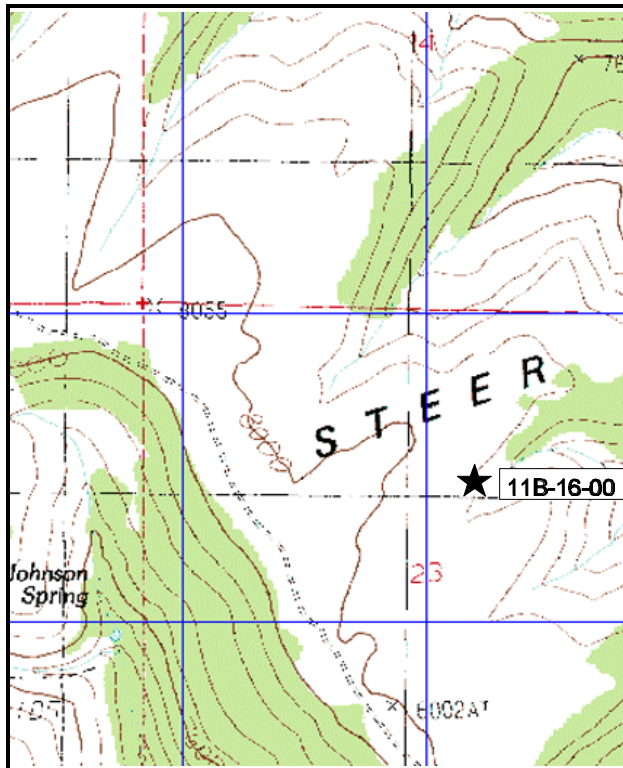
Range type: Mixed Mountain Brush.

Compass bearing: frequency baseline 234°M.

Footmark (first frame placement) 5 feet, footmarks (frequency belts) line 1 (11ft), line 2 (34ft), line 3 (59ft), line 4 (71ft), line 5 (95ft).

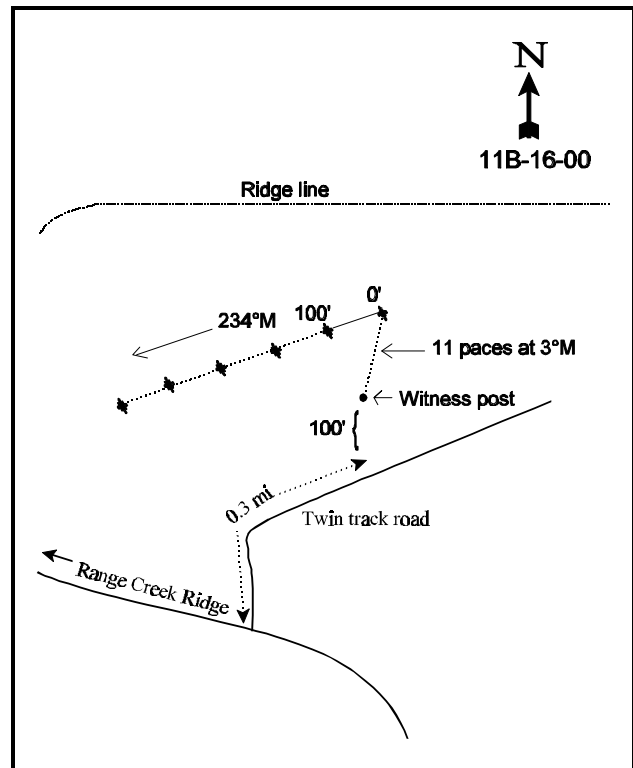
LOCATION DESCRIPTION

From Sunnyside, go up Water Canyon to the summit (Bruin Point). At the summit take the middle fork and go 0.35 miles. Stay right at the fork just beyond a cattle guard and go 0.9 miles. Go through an intersection beyond another cattle guard and go 3.1 miles to a fork. Stay right and travel another 2.9 miles to a fork and turn left just before a gate. Proceed 0.1 miles to a gate. Continue 4.2 miles to a fork. Stay left and continue an additional 1.3 miles to another gate. Continue 5.1 miles and turn left on a twin track road. Drive north 0.3 miles to a witness post 100 ft off the left side of the road. The 0 ft stake is 11 paces away at 3°M and is marked with browse tag number 32 DWR. The baseline runs at an azimuth of 234°M.



Map Name: Steer Ridge Canyon

Township 14S, Range 16E, Section 23



Diagrammatic Sketch

UTM. 4383080.755 N, 578010.174 E

DISCUSSION

Trend Study No. 11B-16 (32-22)

The Steer Ridge trend study was established in 1994. It samples a mountain shrub community near the end of Steer Ridge, only a few miles from the Green River. Elevation of the site is 7,800 feet which slopes slightly to the south. The mountain brush community type here is noticeably shorter in stature than that of the Twin Hollow study. The area is used heavily by wintering elk and deer. Deer are forced to move to lower elevations when snows get deeper, but elk are often seen in the area all winter. Pellet group data from 2000 estimate 82 elk and 19 deer use days/acre (203 edu/ha and 47 ddu/ha). There was also some light use by horses and cattle in 1994, although there has been no livestock use since.

The soils on this site are moderately shallow and rocky with bed rock found at a depth of only 10 to 12 inches. Average effective rooting depth is estimated at just 10 inches. There appears to be enough cracks in the rock to allow deeper rooted shrubs like serviceberry, bitterbrush, and mountain big sagebrush to becoming establish. The deepest soil readings occurred near the base of shrubs. Parent material is sandstone and soil texture is a sandy clay loam with a neutral soil reaction (pH of 7.2). Phosphorus is limited at 5.5 ppm, as values less than 10 ppm have been shown to limit normal plant growth and development. The soil profile is rocky throughout with surface rock having a cover of 9% in 1994 and 15% in 2000. Vegetative and litter cover are moderately low for a high elevation site. This suggests a lower site potential due to the more shallow soil than would normally be expected for a site at this elevation.

Key browse on this site consist of mountain big sagebrush and bitterbrush which provided 84% of the total shrub cover in 1994 and 85% in 2000. The bitterbrush have mostly good vigor with a density of 1,120 plants/acre and only 9% classified as decadent in 2000. They are a shorter growth form averaging just over 2 feet in height with a crown diameter of 4.5 feet. Use is mostly light to moderate. Mountain big sagebrush has a moderate density of 2,160 plants/acre ('00). It shows a higher percent decadency which has increased from 13% in 1994 to 22% in 2000. Use is mostly light to moderate. It appears that the abundant perennial grass component combined with drought may be negatively affecting the sagebrush. This is more pronounced in the shallow draw bottoms where perennial grasses are more abundant and where most of the sagebrush appear to be decadent and dying with little apparent reproduction. The more shallow soil and reduced site potential makes this area a more marginal site for mountain big sagebrush. Very high abundance of ants, associated with the presence of aphids, also appears to be effecting the vigor of some sagebrush plants. However, reproduction is adequate to maintain the stand.

Serviceberry provides an additional 8% of the total browse cover with a small population of 160 plants/acre ('00). These shrubs are more heavily utilized than sagebrush or bitterbrush. Individual serviceberry are smaller in stature due to the shallow, rocky soil. Average height is only 31 inches making many plants all available to hedging. Other common shrubs include dwarf and mountain low rabbitbrush. There are also a few scattered rubber rabbitbrush, mountain mahogany, snowberry, and gray horsebrush.

The herbaceous understory is abundant and diverse with about 60% of the total vegetative cover coming from the herbaceous species. What makes this site better than most is that there are several co-dominant grass species including; thickspike, bluebunch wheatgrass, mutton bluegrass, and needle-and-thread. This abundance of key grass species would be advantageous for elk winter use. Forbs are diverse but they do not provide very much forage. The 25 species sampled in 1994 and 27 species in 2000 provide only about 3.5% cover.

1994 APPARENT TREND ASSESSMENT

Soil trend for the site appears stable with good herbaceous vegetative cover (60% of the vegetative cover) which provides the best protection from high intensity summer storms. The trend for key browse would also appear

stable with good age distributions, excellent vigor, and low rates of decadency which are not bad for the length and severity of the current drought. The herbaceous understory is also very good, with excellent production from more than five species of grasses. The forb component has many species (25), but only contributes 11% of the total vegetative cover.

2000 TREND ASSESSMENT

Trend for soil is improving with increases in vegetative and litter cover combined with a decline in cover of bare ground. Herbaceous vegetation, which better protects the soil from high intensity storms, accounts for nearly 60% of the total vegetative cover. Trend for browse is stable with stable populations of mountain big sagebrush and bitterbrush. Use of these shrubs is light to moderate, vigor is good, and percent decadence is low. Trend for the herbaceous understory is stable. Sum of nested frequency of perennial grasses declined slightly but cover increased from 14% to almost 18%. Nested frequency of mutton bluegrass increased significantly while the less desirable Salina wildrye declined significantly. Prairie junegrass, a warm season species, was abundant in 1994, but decreased significantly in 2000 as well. It appears that the extremely dry conditions this summer have contributed to this decline. Sum of nested frequency of perennial forbs also declined slightly with only two species, sego lily and desert parsley, declined significantly. Total cover of forbs is almost identical to 1994.

TREND ASSESSMENT

soil - up slightly (4)

browse - stable (3)

herbaceous understory - stable (3)

HERBACEOUS TRENDS --
Herd unit 11B, Study no: 16

| T y p e | Species | Nested Frequency | | Quadrat Frequency | | Average Cover % | |
|-----------------------------|------------------------------|---------------------|------|----------------------|-----|--------------------|-------|
| | | '94 | '00 | '94 | '00 | '94 | '00 |
| G | Agropyron dasystachyum | 146 | 160 | 43 | 55 | 1.61 | 3.76 |
| G | Agropyron spicatum | 151 | 147 | 52 | 45 | 4.19 | 4.91 |
| G | Bouteloua gracilis | - | 4 | - | 2 | - | .18 |
| G | Bromus tectorum (a) | - | 1 | - | 1 | - | .00 |
| G | Elymus salina | 69 | *25 | 20 | 10 | 2.32 | .63 |
| G | Koeleria cristata | 86 | *5 | 29 | 2 | 1.81 | .03 |
| G | Oryzopsis hymenoides | 32 | *9 | 11 | 3 | .28 | .19 |
| G | Poa fendleriana | 72 | *187 | 29 | 62 | 1.15 | 4.67 |
| G | Poa secunda | 27 | 39 | 10 | 14 | .17 | .24 |
| G | Sitanion hystrix | 1 | 1 | 1 | 1 | .00 | .03 |
| G | Stipa comata | 67 | 78 | 22 | 31 | 1.95 | 3.06 |
| G | Stipa lettermani | 27 | *- | 11 | - | .72 | .00 |
| Total for Annual Grasses | | 0 | 1 | 0 | 1 | 0 | 0.00 |
| Total for Perennial Grasses | | 678 | 655 | 228 | 225 | 14.25 | 17.73 |
| Total for Grasses | | 678 | 656 | 228 | 226 | 14.25 | 17.73 |
| F | Agoseris glauca | 12 | 6 | 7 | 5 | .06 | .05 |
| F | Antennaria spp. | 14 | 8 | 6 | 2 | .13 | .15 |
| F | Arabis spp. | 3 | - | 1 | - | .00 | - |
| F | Arenaria fendleri | 10 | - | 3 | - | .18 | - |
| F | Astragalus convallarius | - | 3 | - | 1 | - | .00 |
| F | Aster spp. | - | 5 | - | 2 | - | .01 |
| F | Astragalus spp. | 3 | 7 | 1 | 3 | .01 | .34 |
| F | Balsamorhiza sagittata | 7 | 3 | 4 | 3 | .86 | .33 |
| F | Calochortus flexuosus | 17 | *- | 6 | - | .05 | - |
| F | Castilleja linariaefolia | 23 | 22 | 9 | 10 | .14 | .12 |
| F | Chenopodium fremontii (a) | 1 | - | 1 | - | .00 | - |
| F | Chenopodium leptophyllum (a) | 5 | - | 2 | - | .01 | - |
| F | Comandra pallida | 4 | *18 | 2 | 10 | .03 | .32 |
| F | Collinsia parviflora (a) | - | 4 | - | 2 | - | .01 |
| F | Crepis acuminata | 10 | 9 | 5 | 4 | .07 | .19 |
| F | Eriogonum alatum | 13 | 9 | 6 | 3 | .08 | .09 |
| F | Erigeron eatonii | 18 | 14 | 7 | 7 | .16 | .27 |
| F | Erigeron spp. | - | 1 | - | 1 | - | .00 |
| F | Eriogonum umbellatum | 23 | 14 | 9 | 6 | .29 | .08 |
| F | Gayophytum ramosissimum (a) | 2 | 4 | 1 | 2 | .00 | .01 |
| F | Linum lewisii | - | *7 | - | 4 | - | .02 |

| T y p e | Species | Nested Frequency | | Quadrat Frequency | | Average Cover % | |
|---------------------------|-------------------------|---------------------|-----|----------------------|-----|--------------------|------|
| | | '94 | '00 | '94 | '00 | '94 | '00 |
| F | Lithospermum ruderales | 12 | 5 | 5 | 2 | .19 | .18 |
| F | Lomatium spp. | 33 | *1 | 11 | 1 | .08 | .00 |
| F | Oenothera spp. | - | 3 | - | 1 | - | .00 |
| F | Penstemon caespitosus | 10 | 2 | 5 | 2 | .24 | .04 |
| F | Penstemon spp. | 2 | 2 | 2 | 2 | .01 | .01 |
| F | Phlox longifolia | 58 | 53 | 22 | 25 | .11 | .32 |
| F | Polygonum douglasii (a) | 45 | *16 | 21 | 7 | .10 | .03 |
| F | Sphaeralcea coccinea | 78 | 62 | 32 | 26 | .77 | .67 |
| F | Taraxacum officinale | - | 3 | - | 1 | - | .03 |
| F | Tragopogon dubius | - | - | - | - | .00 | - |
| F | Trifolium spp. | - | 6 | - | 2 | - | .01 |
| Total for Annual Forbs | | 53 | 24 | 25 | 11 | 0.12 | 0.05 |
| Total for Perennial Forbs | | 350 | 263 | 143 | 123 | 3.50 | 3.29 |
| Total for Forbs | | 403 | 287 | 168 | 134 | 3.63 | 3.34 |

* Indicates significant difference at % = 0.10 (annuals excluded)

BROWSE TRENDS --

Herd unit 11B, Study no: 16

| T y p e | Species | Strip Frequency | | Average Cover % | |
|------------------|---|--------------------|-----|--------------------|-------|
| | | '94 | '00 | '94 | '00 |
| B | Amelanchier utahensis | 4 | 5 | .03 | 1.19 |
| B | Artemisia tridentata vaseyana | 78 | 62 | 3.79 | 6.40 |
| B | Cercocarpus montanus | 0 | 0 | - | - |
| B | Chrysothamnus depressus | 52 | 33 | 1.45 | .74 |
| B | Chrysothamnus viscidiflorus lanceolatus | 16 | 15 | .29 | .18 |
| B | Gutierrezia sarothrae | 3 | 1 | .00 | - |
| B | Opuntia spp. | 1 | 0 | .00 | - |
| B | Purshia tridentata | 43 | 41 | 6.48 | 6.65 |
| B | Symphoricarpos oreophilus | 2 | 2 | .03 | .00 |
| B | Tetradymia canescens | 7 | 4 | .03 | .18 |
| Total for Browse | | 206 | 163 | 12.13 | 15.35 |

BASIC COVER --

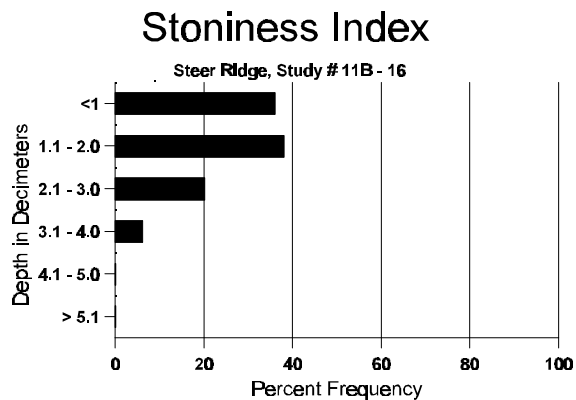
Herd unit 11B, Study no: 16

| Cover Type | Nested Frequency | | Average Cover % | |
|-------------|------------------|-----|-----------------|-------|
| | '94 | '00 | '94 | '00 |
| Vegetation | 526 | 410 | 38.01 | 41.91 |
| Rock | 304 | 177 | 6.60 | 6.08 |
| Pavement | 264 | 302 | 2.01 | 9.07 |
| Litter | 369 | 475 | 20.10 | 46.68 |
| Cryptogams | 12 | 19 | .06 | .30 |
| Bare Ground | 361 | 341 | 20.32 | 18.44 |

SOIL ANALYSIS DATA --

Herd Unit 11B, Study # 16, Study Name: Steer Ridge

| Effective rooting depth (inches) | Temp °F (depth) | pH | %sand | %silt | %clay | %OM | PPM P | PPM K | dS/m |
|----------------------------------|-----------------|-----|-------|-------|-------|-----|-------|-------|------|
| 10.82 | 66.8 (12.68) | 7.2 | 52.0 | 25.4 | 22.6 | 3.3 | 5.5 | 176.0 | 0.7 |



PELLET GROUP FREQUENCY --

Herd unit 11B, Study no: 16

| Type | Quadrat Frequency | | Pellet Transect | |
|--------|-------------------|-----|------------------------------|------------------------------|
| | '94 | '00 | Pellet Groups per Acre 00 | Days Use per Acre (ha) 00 |
| Rabbit | 7 | 7 | - | - |
| Horse | 1 | - | - | - |
| Elk | 44 | 53 | 1061 | 82 (202) |
| Deer | 37 | 21 | 252 | 20 (48) |
| Cattle | 2 | - | - | - |

BROWSE CHARACTERISTICS --

Herd unit 11B, Study no: 16

| A G R E | Y R E | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|-------------|----------------------------|----|---|------------------|---|---|-------------------|---|---|----------------|-----|------|------|--------------------|--------------------------------|----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Amelanchier utahensis | | | | | | | | | | | | | | | | | | |
| Y | 94 | 2 | - | - | - | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 00 | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| M | 94 | 2 | 1 | - | - | - | - | - | - | - | 3 | - | - | - | 60 | 30 | 42 | |
| | 00 | 3 | 1 | - | - | 3 | - | - | - | - | 5 | - | 2 | - | 140 | 31 | 46 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 20% | | | 00% | | | 00% | | | +38% | | | | | | | |
| '00 | | 50% | | | 00% | | | 25% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 100 | Dec: | - | | | |
| | | | | | | | | | | | | '00 | 160 | | - | | | |
| Artemisia tridentata vaseyana | | | | | | | | | | | | | | | | | | |
| S | 94 | 2 | - | - | - | - | - | - | - | - | 2 | - | - | - | 40 | | 2 | |
| | 00 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | - | 60 | | 3 | |
| Y | 94 | 26 | - | - | - | - | - | - | - | - | 26 | - | - | - | 520 | | 26 | |
| | 00 | 14 | 2 | - | 1 | - | - | - | - | - | 15 | 1 | 1 | - | 340 | | 17 | |
| M | 94 | 75 | 11 | 4 | 3 | - | - | - | - | - | 93 | - | - | - | 1860 | 19 | 26 | |
| | 00 | 37 | 19 | 2 | 8 | 1 | - | - | - | - | 62 | 5 | - | - | 1340 | 17 | 26 | |
| D | 94 | 3 | 14 | - | - | - | 1 | - | - | - | 15 | - | - | 3 | 360 | | 18 | |
| | 00 | 17 | 6 | - | 1 | - | - | - | - | - | 11 | 5 | - | 8 | 480 | | 24 | |
| X | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 460 | | 23 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 200 | | 10 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 18% | | | 04% | | | 02% | | | -21% | | | | | | | |
| '00 | | 26% | | | 02% | | | 08% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 2740 | Dec: | 13% | | | |
| | | | | | | | | | | | | '00 | 2160 | | 22% | | | |
| Cercocarpus montanus | | | | | | | | | | | | | | | | | | |
| M | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 38 | 38 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 37 | 44 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 0 | Dec: | - | | | |
| | | | | | | | | | | | | '00 | 0 | | - | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|----|---|------------------|---|---|-------------------|---|---|----------------|---|---|-----|--------------------|--------------------------------|-----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Chrysothamnus depressus | | | | | | | | | | | | | | | | | | |
| Y | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 00 | 5 | - | - | - | - | - | - | - | - | 5 | - | - | - | 100 | | | 5 |
| M | 94 | 151 | 14 | - | 2 | - | - | 2 | - | - | 169 | - | - | - | 3380 | 6 | 9 | 169 |
| | 00 | 72 | 1 | - | - | - | - | - | - | - | 73 | - | - | - | 1460 | 4 | 7 | 73 |
| D | 94 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | 60 | | 3 | |
| | 00 | 11 | - | - | - | - | - | - | - | - | 7 | - | - | 4 | 220 | | | 11 |
| X | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 140 | | | 7 |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 08% | | | 00% | | | 02% | | | -48% | | | | | | | |
| '00 | | 01% | | | 00% | | | 04% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | | | '94 | 3440 | Dec: | 2% | |
| | | | | | | | | | | | | | | '00 | 1780 | | 12% | |
| Chrysothamnus nauseosus hololeucus | | | | | | | | | | | | | | | | | | |
| M | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | - | 0 |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 11 | 24 | 0 |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | | | '94 | 0 | Dec: | - | |
| | | | | | | | | | | | | | | '00 | 0 | | - | |
| Chrysothamnus viscidiflorus lanceolatus | | | | | | | | | | | | | | | | | | |
| Y | 94 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | 0 |
| M | 94 | 23 | 1 | - | - | - | - | - | - | - | 24 | - | - | - | 480 | 10 | 12 | 24 |
| | 00 | 18 | - | - | 4 | - | - | - | - | - | 22 | - | - | - | 440 | 10 | 10 | 22 |
| D | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 00 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | | 1 |
| X | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | | | 1 |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 04% | | | 00% | | | 00% | | | - 8% | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | | | '94 | 500 | Dec: | 0% | |
| | | | | | | | | | | | | | | '00 | 460 | | 4% | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|----|---|------------------|----|---|-------------------|---|---|----------------|-----|------|------|--------------------|--------------------------------|----|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Gutierrezia sarothrae | | | | | | | | | | | | | | | | | | |
| M | 94 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | - | 60 | 6 | 8 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 4 | 7 | |
| D | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | | |
| | 00 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 00% | | | 00% | | | 00% | | | -67% | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 60 | Dec: | 0% | | | |
| | | | | | | | | | | | | '00 | 20 | | 100% | | | |
| Opuntia spp. | | | | | | | | | | | | | | | | | | |
| M | 94 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | - | - | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 3 | 23 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 20 | Dec: | - | | | |
| | | | | | | | | | | | | '00 | 0 | | - | | | |
| Purshia tridentata | | | | | | | | | | | | | | | | | | |
| Y | 94 | 7 | - | - | - | - | - | - | - | - | 7 | - | - | - | 140 | | | |
| | 00 | 3 | - | - | - | - | - | - | - | - | 2 | - | 1 | - | 60 | | | |
| M | 94 | 37 | 9 | - | 1 | 9 | - | - | - | - | 56 | - | - | - | 1120 | 20 | 51 | |
| | 00 | 25 | 12 | - | - | 10 | 1 | - | - | - | 46 | 2 | - | - | 960 | 26 | 56 | |
| D | 94 | 1 | - | 2 | - | 4 | - | - | - | - | 7 | - | - | - | 140 | | | |
| | 00 | 2 | 1 | - | 1 | 1 | - | - | - | - | 3 | - | 1 | 1 | 100 | | | |
| X | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 40 | | | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | | | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 31% | | | 03% | | | 00% | | | -20% | | | | | | | |
| '00 | | 43% | | | 02% | | | 05% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 1400 | Dec: | 10% | | | |
| | | | | | | | | | | | | '00 | 1120 | | 9% | | | |
| Symphoricarpos oreophilus | | | | | | | | | | | | | | | | | | |
| M | 94 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | - | 60 | 20 | 41 | |
| | 00 | 2 | - | - | - | - | - | - | - | - | 2 | - | - | - | 40 | 15 | 29 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 00% | | | 00% | | | 00% | | | -33% | | | | | | | |
| '00 | | 00% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | '94 | 60 | Dec: | - | | | |
| | | | | | | | | | | | | '00 | 40 | | | | | |

| A G E | Y R | Form Class (No. of Plants) | | | | | | | | | Vigor Class | | | | Plants Per Acre | Average (inches) Ht. Cr. | | Total |
|--|--------|----------------------------|---|---|------------------|---|---|-------------------|---|---|----------------|---|-----|-----|--------------------|--------------------------------|---|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 1 | 2 | 3 | 4 | | | | |
| Tetradymia canescens | | | | | | | | | | | | | | | | | | |
| Y | 94 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| | 00 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| M | 94 | 6 | 1 | - | - | - | - | - | - | - | 7 | - | - | - | 140 | 8 12 | 7 | |
| | 00 | 3 | - | - | - | - | - | - | - | - | 3 | - | - | - | 60 | 8 13 | 3 | |
| D | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | | 0 | |
| | 00 | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | 20 | | 1 | |
| % Plants Showing | | <u>Moderate Use</u> | | | <u>Heavy Use</u> | | | <u>Poor Vigor</u> | | | <u>%Change</u> | | | | | | | |
| '94 | | 13% | | | 00% | | | 00% | | | -50% | | | | | | | |
| '00 | | 25% | | | 00% | | | 00% | | | | | | | | | | |
| Total Plants/Acre (excluding Dead & Seedlings) | | | | | | | | | | | | | '94 | 160 | Dec: | 0% | | |
| | | | | | | | | | | | | | '00 | 80 | | 25% | | |